

Table of Contents

VOLUME 81 (EMG & Motor Control), 1991

MAIN ARTICLES

Turns-amplitude analysis at different sampling frequencies S.Å. Jørgensen and A. Fuglsang-Frederiksen (Denmark)	1
A comparison of turns analysis and motor unit analysis in electromyography K.C. McGill, K. Lau and L.J. Dorfman (U.S.A.)	8
Orthodromic sensory conduction along the ring finger in normal subjects and in patients with a carpal tunnel syndrome M. Lauritzen, R. Liguori and W. Trojaborg (Denmark)	18
Masseter inhibitory reflex in movement disorders. Huntington's chorea, Parkinson's disease, dystonia, and unilateral masticatory spasm G. Cruccu, G. Pauletti, R. Agostino, A. Berardelli and M. Manfredi (Italy)	24
Scalp topography of giant SEP and pre-myoclonus spike in cortical reflex myoclonus H. Shibasaki, R. Kakigi and A. Ikeda (Japan)	31
Coil placement in magnetic brain stimulation related to skull and brain anatomy B.-U. Meyer, T.C. Britton, H. Kloten, H. Steinmetz and R. Benecke (F.R.G., U.K.)	38
A theoretical calculation of the electric field induced in the cortex during magnetic stimulation B.J. Roth, J.M. Saypol, M. Hallett and L.G. Cohen (U.S.A.)	47
Motor evoked potentials and central motor conduction: studies of transcranial magnetic stimulation with recording from the leg K.R. Booth, L.J. Streletz, V.E. Raab, J.J. Kerrigan, M.A. Alaimo and G.J. Herbison (U.S.A.)	57
Magnetic stimulation of motor cortex and nerve roots in children. Maturation of cortico-motoneuronal projections K. Müller, V. Hömberg and H.-G. Lenard (F.R.G.)	63
Influence of posture and voluntary background contraction upon compound muscle action potentials from anterior tibial and soleus muscle following transcranial magnetic stimulation H. Ackermann, E. Scholz, W. Koehler and J. Dichgans (F.R.G.)	71
Latency of motor evoked potentials to focal transcranial stimulation varies as a function of scalp positions stimulated P. Fuhr, L.G. Cohen, B.J. Roth and M. Hallett (U.S.A.)	81
Non-invasive evaluation of central motor tract excitability changes following peripheral nerve stimulation in healthy humans R. Mariorenzi, F. Zarola, M.D. Caramia, C. Paradiso and P.M. Rossini (Italy)	90
Conduction velocity and temporal dispersion of the nerve volleys evoked by air-puff stimulation of the index finger and palm I. Hashimoto, K. Yoshikawa, M. Sasaki, T. Gatayama and M. Nomura (Japan)	102
Randomized double pulse stimulation for assessing stimulus frequency-dependent conduction in injured spinal and peripheral axons K. Sakatani, H. Iizuka and W. Young (U.S.A.)	108
Developmental and age-related changes in reflexes of the human jaw-closing system A. Smith, C.M. Weber, J. Newton and M. Denny (U.S.A.)	118
Bereitschaftspotential in a simple movement or in a motor sequence starting with the same simple movement M. Simonetta, M. Clanet and O. Rascol (France)	129
Changes in electromyographic responses to muscle stretch, related to the programming of movement parameters M. Bonnet, J. Requin and G.E. Stelmach (France)	135
Finite limb dimensions and finite muscle length in a model for the generation of electromyographic signals T.H.J.M. Gootzen, D.F. Stegeman and A. Van Oosterom (The Netherlands)	152
Recording single motor unit activity of human nasal muscles with surface electrodes: applications for respiration and speech R.W. Lansing, N.P. Solomon, A.R. Kossev and A.B. Andersen (U.S.A.)	167
Compound activity in sensory nerve fibers is related to intensity of sensation evoked by air-puff stimulation of the index finger in man I. Hashimoto, T. Gatayama, K. Yoshikawa, M. Sasaki and M. Nomura (Japan)	176
Variability of cortically evoked motor responses in multiple sclerosis T.C. Britton, B.-U. Meyer and R. Benecke (F.R.G.)	186
Standardization of facilitation of compound muscle action potentials evoked by magnetic stimulation of the cortex. Results in healthy volunteers and in patients with multiple sclerosis M. Ravnborg, M. Blinkenberg and K. Dahl (Denmark)	195
Motor evoked potentials (MEPs) in lacunar syndromes G. Abbruzzese, M. Morena, D. Dall'Agata, M. Abbruzzese and E. Favale (Italy)	202
Age-dependent decline in motor evoked potential (MEP) amplitude: with a comment on changes in Parkinson's disease A. Eisen, S. Siejka, M. Schulzer and D. Calne (Canada)	209
Modification of cortical somatosensory evoked potentials during tactile exploration and simple active and passive movements J. Huttunen and V. Hömberg (F.R.G.)	216
Measurement of the electric field induced into inhomogeneous volume conductors by magnetic coils: application to human spinal neurogeometry P.J. Maccabee, V.E. Amassian, L.P. Eberle, A.P. Rudell, R.Q. Cracco, K.S. Lai and M. Somasundaram (U.S.A.)	224

Table of Contents

VOLUME 81 (EMG & Motor Control), 1991

MAIN ARTICLES

Turns-amplitude analysis at different sampling frequencies S.Å. Jørgensen and A. Fuglsang-Frederiksen (Denmark)	1
A comparison of turns analysis and motor unit analysis in electromyography K.C. McGill, K. Lau and L.J. Dorfman (U.S.A.)	8
Orthodromic sensory conduction along the ring finger in normal subjects and in patients with a carpal tunnel syndrome M. Lauritzen, R. Liguori and W. Trojaborg (Denmark)	18
Masseter inhibitory reflex in movement disorders. Huntington's chorea, Parkinson's disease, dystonia, and unilateral masticatory spasm G. Cruccu, G. Pauletti, R. Agostino, A. Berardelli and M. Manfredi (Italy)	24
Scalp topography of giant SEP and pre-myoclonus spike in cortical reflex myoclonus H. Shibasaki, R. Kakigi and A. Ikeda (Japan)	31
Coil placement in magnetic brain stimulation related to skull and brain anatomy B.-U. Meyer, T.C. Britton, H. Kloten, H. Steinmetz and R. Benecke (F.R.G., U.K.)	38
A theoretical calculation of the electric field induced in the cortex during magnetic stimulation B.J. Roth, J.M. Saypol, M. Hallett and L.G. Cohen (U.S.A.)	47
Motor evoked potentials and central motor conduction: studies of transcranial magnetic stimulation with recording from the leg K.R. Booth, L.J. Streletz, V.E. Raab, J.J. Kerrigan, M.A. Alaimo and G.J. Herbison (U.S.A.)	57
Magnetic stimulation of motor cortex and nerve roots in children. Maturation of cortico-motoneuronal projections K. Müller, V. Hömberg and H.-G. Lenard (F.R.G.)	63
Influence of posture and voluntary background contraction upon compound muscle action potentials from anterior tibial and soleus muscle following transcranial magnetic stimulation H. Ackermann, E. Scholz, W. Koehler and J. Dichgans (F.R.G.)	71
Latency of motor evoked potentials to focal transcranial stimulation varies as a function of scalp positions stimulated P. Fuhr, L.G. Cohen, B.J. Roth and M. Hallett (U.S.A.)	81
Non-invasive evaluation of central motor tract excitability changes following peripheral nerve stimulation in healthy humans R. Mariorenzi, F. Zarola, M.D. Caramia, C. Paradiso and P.M. Rossini (Italy)	90
Conduction velocity and temporal dispersion of the nerve volleys evoked by air-puff stimulation of the index finger and palm I. Hashimoto, K. Yoshikawa, M. Sasaki, T. Gatayama and M. Nomura (Japan)	102
Randomized double pulse stimulation for assessing stimulus frequency-dependent conduction in injured spinal and peripheral axons K. Sakatani, H. Iizuka and W. Young (U.S.A.)	108
Developmental and age-related changes in reflexes of the human jaw-closing system A. Smith, C.M. Weber, J. Newton and M. Denny (U.S.A.)	118
Bereitschaftspotential in a simple movement or in a motor sequence starting with the same simple movement M. Simonetta, M. Clanet and O. Rascol (France)	129
Changes in electromyographic responses to muscle stretch, related to the programming of movement parameters M. Bonnet, J. Requin and G.E. Stelmach (France)	135
Finite limb dimensions and finite muscle length in a model for the generation of electromyographic signals T.H.J.M. Gootzen, D.F. Stegeman and A. Van Oosterom (The Netherlands)	152
Recording single motor unit activity of human nasal muscles with surface electrodes: applications for respiration and speech R.W. Lansing, N.P. Solomon, A.R. Kossev and A.B. Andersen (U.S.A.)	167
Compound activity in sensory nerve fibers is related to intensity of sensation evoked by air-puff stimulation of the index finger in man I. Hashimoto, T. Gatayama, K. Yoshikawa, M. Sasaki and M. Nomura (Japan)	176
Variability of cortically evoked motor responses in multiple sclerosis T.C. Britton, B.-U. Meyer and R. Benecke (F.R.G.)	186
Standardization of facilitation of compound muscle action potentials evoked by magnetic stimulation of the cortex. Results in healthy volunteers and in patients with multiple sclerosis M. Ravnborg, M. Blinkenberg and K. Dahl (Denmark)	195
Motor evoked potentials (MEPs) in lacunar syndromes G. Abbruzzese, M. Morena, D. Dall'Agata, M. Abbruzzese and E. Favale (Italy)	202
Age-dependent decline in motor evoked potential (MEP) amplitude: with a comment on changes in Parkinson's disease A. Eisen, S. Siejka, M. Schulzer and D. Calne (Canada)	209
Modification of cortical somatosensory evoked potentials during tactile exploration and simple active and passive movements J. Huttunen and V. Hömberg (F.R.G.)	216
Measurement of the electric field induced into inhomogeneous volume conductors by magnetic coils: application to human spinal neurogeometry P.J. Maccabee, V.E. Amassian, L.P. Eberle, A.P. Rudell, R.Q. Cracco, K.S. Lai and M. Somasundaram (U.S.A.)	224

'Excitability' changes of muscular responses to magnetic brain stimulation in patients with central motor disorders M.D. Caramia, P. Cicinelli, C. Paradiso, R. Mariorenzi, F. Zarola, G. Bernardi and P.M. Rossini (Italy)	243
Motor potentials evoked by magnetic stimulation of the motor cortex in normal subjects and patients with motor disorders T. Uozumi, S. Tsuji and Y. Murai (Japan)	251
Spinal motor neuron excitability during the silent period after cortical stimulation P. Fuhr, R. Agostino and M. Hallett (U.S.A.)	257
Electrophysiological correlates of postural instability in Parkinson's disease D.J. Beckley, B.R. Bloem, J.G. Van Dijk, R.A.C. Roos and M.P. Remler (U.S.A., The Netherlands)	263
Reaction times recording methods: reliability and EMG analysis of patterns of motor commands C. Tomberg, H. Levarlet-Joye and J.E. Desmedt (Belgium)	269
Mechanical implications of paired motor unit discharges in pathological and voluntary tremor J.M. Elek, R. Dengler, A. Konstanzer, S. Hesse and W. Wolf (F.R.G.)	279
Neuromagnetic fields accompanying unilateral and bilateral voluntary movements: topography and analysis of cortical sources R. Kristeva, D. Cheyne and L. Deecke (Austria)	284
Percutaneous cervical stimulation: effects on intraspinal structures M.J. Segura, C.N. Gandolfo and R.E.P. Sica (Argentina)	299
Is there an age-dependent continuous increase in the duration of the motor unit action potential? C. Bischoff, J. Machetanz and B. Conrad (F.R.G.)	304
An objective method for assessing graded electrically evoked afferent activity in humans C.G. Kukulka, D.A. Brown and M.M. Weightman (U.S.A.)	312
A new method to measure the distribution of motor conduction velocity in man H. Harayama, K. Shinozawa, H. Kondo and T. Miyatake (Japan)	323
Multichannel measurements of magnetic compound action fields of the median nerve in man I. Hashimoto, K. Odaka, T. Gatayama and S. Yokoyama (Japan)	332
Myoclonus and sensorimotor integration in a patient with Ramsay Hunt syndrome E. Kunesch, W.J. Becker and H.-J. Freund (F.R.G., Canada)	337
Silent period induced by cutaneous stimulation A. Uncini, T. Kujirai, B. Gluck and S. Pullman (U.S.A.)	344
Long latency postural responses are functionally modified by cognitive set D.J. Beckley, B.R. Bloem, M.P. Remler, R.A.C. Roos and J.G. Van Dijk (U.S.A., Netherlands)	353
Percutaneous magnetic coil stimulation of human cervical vertebral column: site of stimulation and clinical application S. Chokroverty, M.A. Picone and M. Chokroverty (U.S.A.)	359
Attenuation in detection of somatosensory stimuli by transcranial magnetic stimulation L.G. Cohen, S. Bandinelli, S. Sato, C. Kufta and M. Hallett (U.S.A.)	366
Transcranial stimulation of motor cortex in upper motor neurone syndrome: its relation to the motor deficit V. Hömberg, K.M. Stephan and J. Netz (F.R.G.)	377
Electrical and magnetic transcranial stimulation in patients with corticospinal damage due to stroke or motor neurone disease A. Berardelli, M. Inghilleri, G. Cruccu, B. Mercuri and M. Manfredi (Italy)	389
Further observations on the facilitation of muscle responses to cortical stimulation by voluntary contraction P.D. Thompson, B.L. Day, J.C. Rothwell, D. Dressler, A. Maertens de Noordhout and C.D. Marsden (U.K.)	397
Scanning EMG in normal muscle and in neuromuscular disorders E. Stålberg and P. Dioszeghy (Sweden)	403
Variability of repeated nerve conduction studies A.F. Bleasel and R.R. Tuck (Australia)	417
Disturbed modulation of the stretch reflex gain during standing in cerebellar ataxia T. Tokuda, K. Tako, R. Hayashi and N. Yanagisawa (Japan)	421
Antagonist inhibition during rest and precontraction T. Kasai and T. Komiya (Japan)	427
The ubiquity of contraction enhanced H reflexes: normative data and use in the diagnosis of radiculopathies J.C. White (U.S.A.)	433
Optimal transcranial magnetic stimulation sites for the assessment of motor function J.R. Toleikis, T.B. Sloan and A.K. Ronai (U.S.A.)	443
Exploratory mapping of evoked neuromagnetic activity from human peripheral nerve, brachial plexus and spinal cord G. Curio, S.N. Erné, J. Sandfort, J. Scheer, R. Stehr and L. Trahms (F.R.G.)	450
Brain excitability and long latency muscular arm responses: non-invasive evaluation in healthy and parkinsonian subjects P.M. Rossini, C. Paradiso, F. Zarola, G. Bernardi, M.D. Caramia, L. Margari and E. Ferrari (Italy)	454
Multi-unit activity in sensory fibers is related to intensity of sensation evoked by air-puff stimulation of the glabrous hand in man I. Hashimoto, T. Gatayama, M. Tamaki, R. Ushijima, K. Yoshikawa, M. Sasaki, M. Nomura and H. Isojima (Japan)	466

SHORT COMMUNICATIONS

The measurement of electric field, and the influence of surface charge, in magnetic stimulation P.S. Tofts and N.M. Branston (U.K.)	238
Multiple firing of motoneurons is produced by cortical stimulation but not by direct activation of descending motor tracts A. Berardelli, M. Inghilleri, J.C. Rothwell, G. Cruccu and M. Manfredi (Italy, U.K.)	240

Prime mover muscle in finger lift or finger flexion reaction times: identification with transcranial magnetic stimulation C. Tomberg and M.D. Caramia (Belgium, Italy)	319
---	-----

REVIEW ARTICLE

Fibrillation potentials and positive sharp waves: are they the same? G.H. Kraft (U.S.A.)	163
<i>Index of Authors to Volume 81, 1991</i>	473
<i>Index of Subjects to Volume 81, 1991</i>	477
<i>Table of Contents to Volume 81, 1991</i>	482

